
Claims

1. It is a type of fracture-proof flat clasping floorboard strips. Along the long side of the board strip, there is slot mortise on one end and tenon on the other end. Along its short side, there is slot mortise on one end and tenon on the other end. The slot mortise has a short end in the upper side and a long end in its lower side. The upper surface of the slot mortise is parallel to and has the same height with the upper surface of the tenon. Its uniqueness lies in that in the lower surface of the slot mortise there is a V-shaped groove while a convexity is arranged on the lower surface of the tenon. The convexity extends towards the insertion direction of the tenon and has an anti-self-locking oblique plane in its front end. The oblique plane forms Angle No.1 with the upper surface of the strip. The Angle varies between 15-35°. A corresponding oblique plane is arranged on the external surface of the long end of the slot mortise's lower side in order to fit the anti-self-locking oblique plane. The rear end of the convexity fits perfectly with the external side surface of the V-shaped groove and forms a self-locking plane, which forms Angle No. 2 with the upper surface of the strip. Angle No. 2 varies between 30-70°. The external shape of the tenon corresponds with that of the slot mortise.
2. The fracture-proof flat clasping floorboard strip as described in Claim 1 has a feature – the side wall of the long end of the slot mortise is 2-4mm longer than that of its short end.
3. The flooring assembled with fracture-proof flat clasping floorboard strips as described in Claims 1 and 2 includes a number of strips which are assembled together with the tenon in one strip inserted into the slot mortise in another and form the floor surface.
4. The fracture-proof flat clasping flooring as described in Claim 5 features mutual joints between tenons and slot mortises along the long/short sides of different strips.